

# MONTHLY WEATHER REVIEW.

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## INTRODUCTION.

The present Summary, for the year 1898, is based essentially upon data received from about 140 regular Weather Bureau stations and 28 regular Canadian stations; in preparing the charts of mean annual surface temperature and total precipitation, however, many reports from voluntary stations were used. A revised chart of total annual precipitation

will be published in the Annual Report of the Chief of the Weather Bureau when the data from all voluntary stations have been received. The tables for thunderstorms and auroras are, as usual, based on reports from both voluntary and regular observers. The statistical tables and charts have been prepared under the supervision of A. J. Henry, Chief of the Division of Records and Meteorological Data.

## FORECAST DIVISION.

E. B. GARRETT, Chief of Forecast Division.

### SUMMARY OF HIGHS AND LOWS FROM 1895 TO 1898, INCLUSIVE.

During a part of 1895 and all the three succeeding years the data regarding the highs and lows of each month have been compiled by one person and under precisely constant or similar conditions. It is not believed that records for four years can give any but approximate results, but it will be of some value to compile averages, and these will serve for a fuller study as the years go by. The average data for 1895 are added, but they should be given less weight, and should be used more to corroborate the averages for other years and not independently or as proving anything in and of themselves. In summarizing the data the following points have been sought for: (1) The average latitude and longitude of the beginning and ending of each months' highs and lows. (2) The velocity of these in miles per hour. (3) The average latitude at which these highs and lows crossed the ninetieth meridian.

#### *Summary of highs and lows.*

Month.	Highs.				Lows.				Crosses 90° W.	
	Mean first.		Mean last.		Mean first.		Mean last.		High.	Low.
	Lat. N.	Long. W.	Lat. N.	Long. W.	Lat. N.	Long. W.	Lat. N.	Long. W.	Velocity.	Velocity.
1895.	o	o	o	o	o	o	o	o	o	o
January .....	48	105	43	74	39	44	103	45	67	33
February....	49	107	41	90	29	40	103	45	64	25
March....	50	112	35	83	27	45	106	43	68	31
April ....	42	115	39	83	22	50	112	42	79	27
May.....	49	103	34	85	22	50	108	47	81	22
June.....	45	119	41	81	25	44	110	45	81	19
July.....	46	108	36	87	18	48	109	44	74	24
August.....	41	108	39	84	22	45	105	43	73	22
September..	45	116	42	77	23	49	112	47	74	24
October....	47	111	40	77	25	47	107	47	65	28
November..	46	111	40	67	21	39	101	48	72	34
December..	53	105	37	80	20	43	109	48	72	31
Cold.....	49	109	39	78	27	43	105	46	68	30
Warm....	45	111	39	83	22	48	109	45	77	23
Mean.....	47	110	39	80	24	45	107	45	73	26

#### *Summary of highs and lows—Continued.*

Month.	Highs.				Lows.				Crosses 90° W.	
	Mean first.		Mean last.		Mean first.		Mean last.		High.	Low.
	Lat. N.	Long. W.	Lat. N.	Long. W.	Lat. N.	Long. W.	Lat. N.	Long. W.	Velocity.	Velocity.
1896.	o	o	o	o	o	o	o	o	o	o
January....	48	111	43	79	22	44	114	43	77	25
February....	46	111	45	89	26	48	115	39	75	26
March....	51	113	40	73	23	46	111	46	67	27
April....	49	105	40	78	21	44	112	47	81	23
May....	46	99	36	75	23	41	110	45	81	21
June....	45	115	40	75	23	50	112	46	75	24
July....	51	113	43	83	22	49	110	47	76	23
August....	49	119	43	67	22	49	107	48	69	27
September..	50	119	43	68	24	46	108	46	72	25
October....	45	114	45	83	21	46	106	48	78	24
November..	48	104	43	63	27	43	118	48	65	33
December..	48	104	38	90	24	49	116	47	67	31
Cold.....	48	110	42	76	24	46	113	45	71	28
Warm....	48	112	41	74	23	47	109	47	76	24
Mean....	48	111	42	75	24	46	111	46	74	26
1897.	o	o	o	o	o	o	o	o	o	o
January....	49	108	44	77	27	43	111	47	67	29
February....	50	108	43	70	26	42	109	46	63	31
March....	51	107	39	70	25	42	108	47	75	27
April....	46	114	39	78	24	47	112	46	69	23
May....	44	113	39	81	19	47	106	46	77	26
June....	47	115	36	81	23	46	108	44	83	24
July....	48	123	31	87	20	52	113	46	79	19
August....	49	115	38	81	25	49	112	46	70	22
September..	46	112	36	83	21	44	109	46	72	25
October....	44	110	39	75	24	46	108	44	75	26
November..	49	118	39	71	25	47	111	48	56	27
December..	48	114	36	78	22	42	113	48	64	32
Cold.....	49	111	40	73	25	44	110	47	67	29
Warm....	47	115	35	82	22	48	110	46	75	22
Mean....	48	113	38	78	23	46	110	46	71	25
1898.	o	o	o	o	o	o	o	o	o	o
January....	46	109	45	62	30	41	113	47	56	36
February....	48	109	42	74	28	43	117	47	66	27
March....	50	116	45	71	25	40	105	48	66	29
April....	43	123	35	74	25	45	115	45	66	25
May....	49	114	37	84	22	40	112	38	76	19
June....	46	109	37	73	23	46	110	45	64	24
July....	44	118	38	74	22	49	114	48	67	27
August....	45	108	42	69	21	46	109	45	71	21
September..	46	118	40	74	24	48	105	45	71	22
October....	46	119	43	74	24	42	104	48	67	24
November..	44	122	40	72	25	46	111	47	69	27
December..	46	105	38	74	24	45	114	46	63	23
Cold.....	47	114	42	70	26	44	111	47	64	23
Warm....	45	115	38	75	23	46	111	45	69	23
Mean....	46	114	40	72	24	45	111	46	67	26

